

(57) Abstract

A method (300) for receiving radio signal comprises the steps of: receiving (301, 303) first and a second received signal components using first and second antennas having different properties; processing (305) a received signal component to produce a sampled signal component; producing (307) at least one combined signal, which is a linear combination of at least two sampled signal components; and selecting (306) at least one set of complex values for coefficients of the linear combination so that a quality of a combined signal is at least equal to the quality of that sampled signal components having the best quality. Furthermore, the antennas are alternately connected (302, 304) via a switching element to radio frequency means so that the received signal components are interleaving and so that first and second parts of a certain piece of transmitted information are received with the first and second antennas, respectively. A corresponding receiver device is also presented.

Fig. 6